

STEPHEN STEGER is an Engineer + Designer

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Education

Massachusetts Institute of Technology. Cambridge, MA
Bachelor of Science in Engineering, June 2008.
Concentration in Mechanical Engineering w/ focus in Electrical Engineering
Cumulative GPA 4.5/5.0

Experience

Intel Corporation. Chandler, AZ. 09/08 to Present
Process Engineer, AZFSM Fab32
Implementing quality and efficiency improvements for 45nm technology wet etch processes.
Troubleshooting and sustaining wet etch tools using statistical and analytical means.

Organic Oscar. San Diego, CA. 05/09 to Present
Freelance Designer
Designing bottle, label, and webpage for new line of organic bath products for dogs. Performed market research, user experience testing, and built prototypes.

MIT Media Lab Cognitive Machines Group. Cambridge, MA. 02/07 to 05/08
Undergraduate Researcher, Trisk Active Vision & Touch Robot Project, Playlamp
Designed mechanical structure of Playlamp, a surveillance device to aid in early detection of autism.
Designed modular containment unit for Trisk robot support systems.

MIT Media Lab Tangible Media Group. Cambridge, MA. 09/06 to 02/07
Undergraduate Researcher, Eco-Printer Project
Completed design and construction of self-sustaining, solar-powered printer prototype.

MIT China Educational Technology Initiative. PRC. 06/06 to 08/06, 06/08 to 08/08
Teacher, Qinghai University, Xi'an Jiaotong University, multiple Chinese high schools
Taught 2-3 week long courses consisting of toy design, physics, thermodynamics, and American culture to classes sized 10 to 100 students.

Callaway Golf. Carlsbad, CA. 07/05 to 08/05
Intern, Innovation and Advanced Design department
Developed graphic and shape elements for Callaway brand golf drivers. Redesigning clamp used in measuring driver head displacement. Designed apparel for Odyssey brand.

Human Biomolecular Research Institute. La Jolla, CA. 06/03 to 08/03
Intern, organic chemistry lab.
Developed compounds with potential use in anti-depressants and limiting drug addiction.

Freelance Designer. 09/00 to Present
Designed sites, logos, promotions, and paraphernalia for MIT 6.370, MIT '08 Class Council, Traders@MIT, Southwestern College, Pacific Records, various music artists.

Leadership

Team Leader of Intel MAPSS Development Team. 09/09-Present
Leading team of 7 Intel Employees to develop and deploy a network of wireless mobile pollution sensors using GPS and GSM/GPRS technologies. Applied for and awarded \$7K Intel Sustainability In Action grant.

Systems Integrator for 2.009 Product Engineering Process Class. 07/08-12/08
Led a 17 member MIT student team to develop a bicycle powered shea nut grinder.

Social Chair of MIT Class of 2008. 06/07-06/08
Organized numerous class social events with \$2-3K budgets and 300+ attendees.

President of MIT Imobilare Hip Hop Culture Organization. 06/05-06/08
Twice organized "Breakonomics" breakdance jam which had 400+ attendees and pulled in \$3K in revenue. Recruitment efforts more than tripled club membership.

Coursework

mechanical engineering
Product Design & Development
Process, Mechanical Design,
Manufacturing, Control Systems,
Dynamics, Thermodynamics &
Fluids, Materials, Toy Design

electrical engineering
Power Electronics,
Microcontrollers, Computation
Structures, Structure &
Interpretation of Computer
Programs

art & design
Tangible Interfaces,
Computational Media Design,
Media Studies, Sculpture,
Furniture

Skills

machine tools
CNC Machines, Mill, Lathe,
Lasercutter, Waterjet, 3D Printer,
Injection Molding Machine,
Thermo-former, Arc-welding,
Sewing Machine

software
SolidWorks, CosmosWorks,
UGS NX, Rhino 3D, Matlab,
MathCAD, MasterCAM, Adobe
CS4, Final Cut Pro, MS Office

programming
Matlab, HTML, CSS, PHP,
Assembly, C

languages
English, Native
Mandarin, Conversational
Spanish, Conversational

Distinctions

organizations
Beta Theta Pi Social Chair and
Art Representative, Interfraternity
Council Propaganda Committee,
MIT Dance Troupe Publicity
Chair, Art Scholar

awards received
High School Validictorian,
National Merit Scholar, National
AP Scholar, Selected for '04 AP
Studio Art Poster